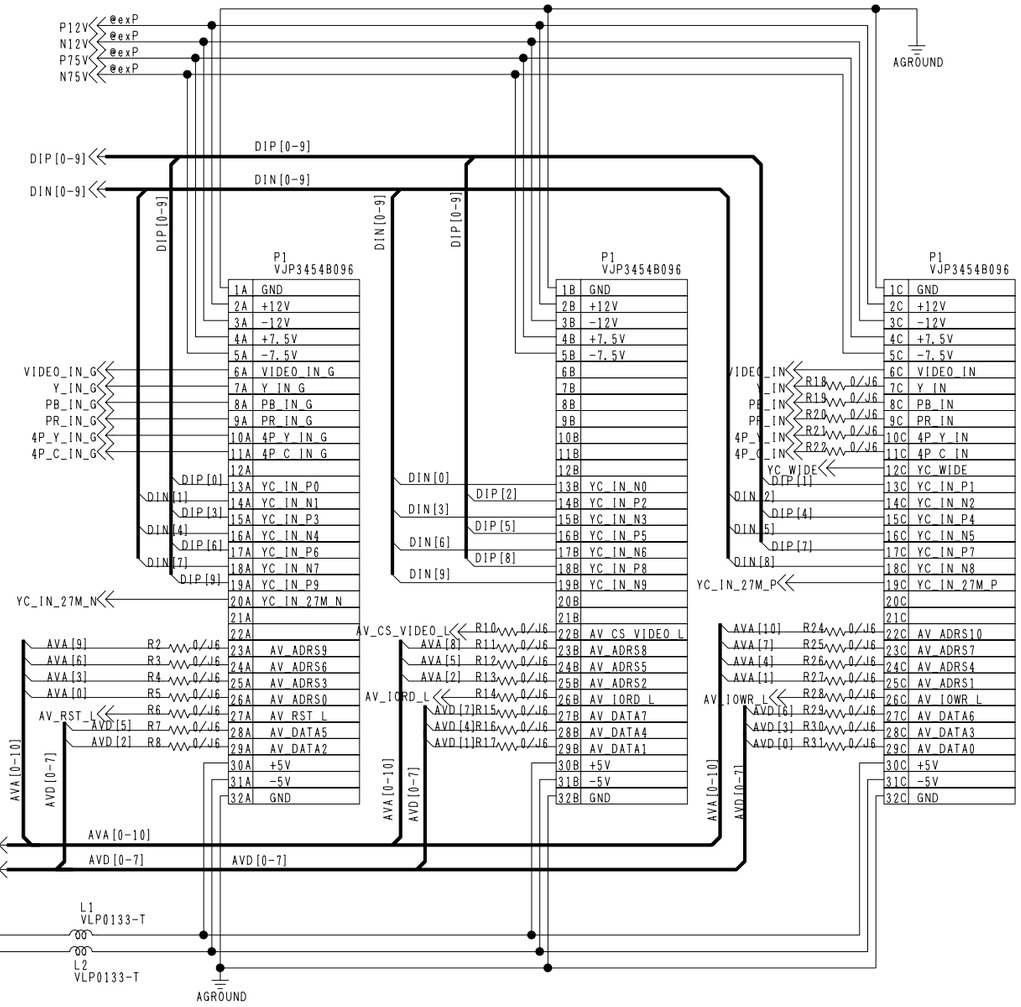
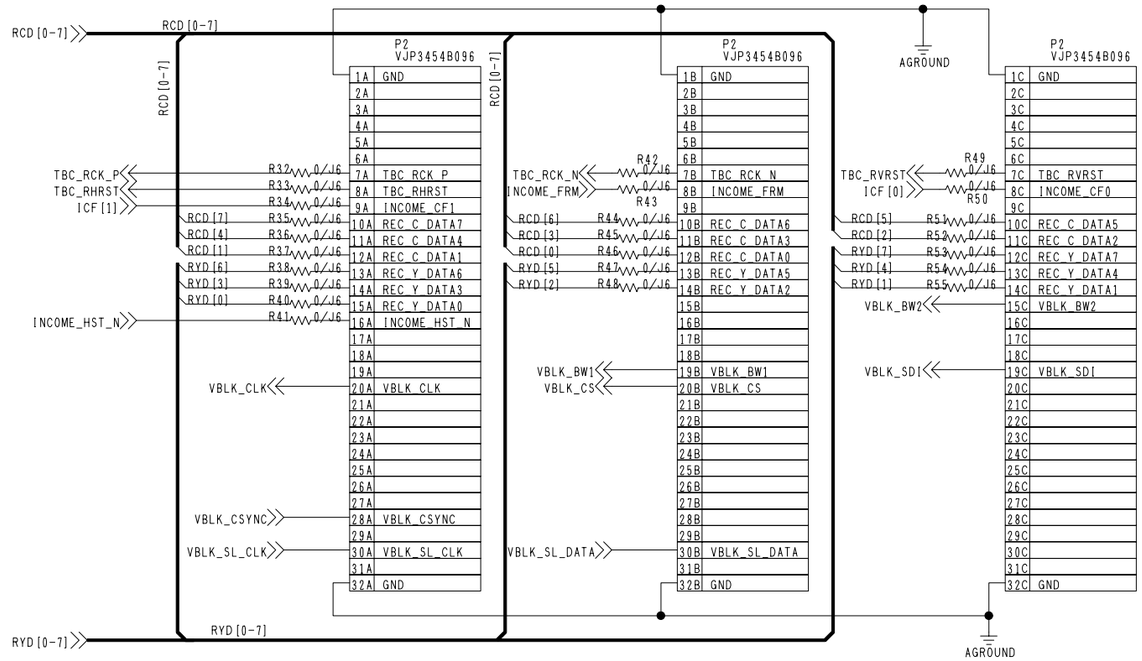
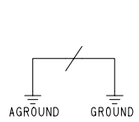
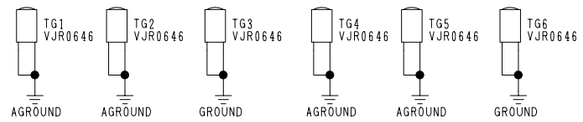
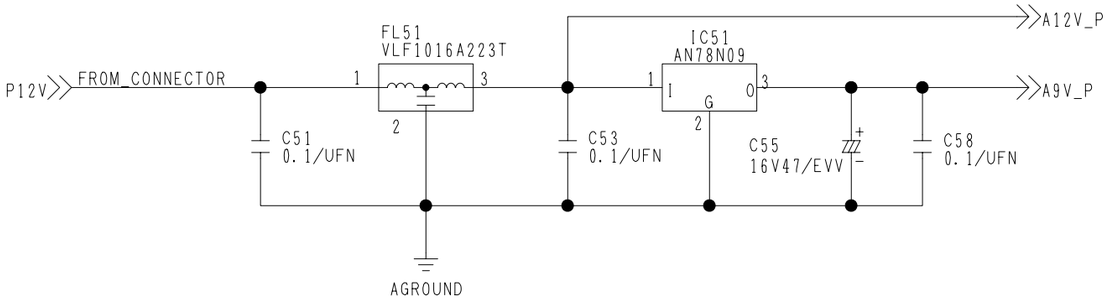


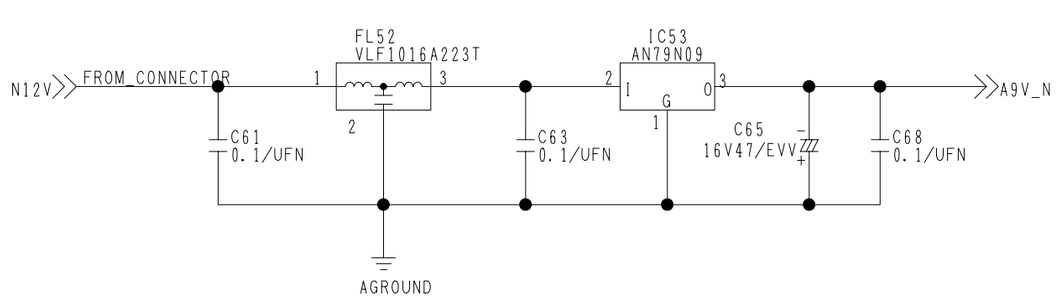


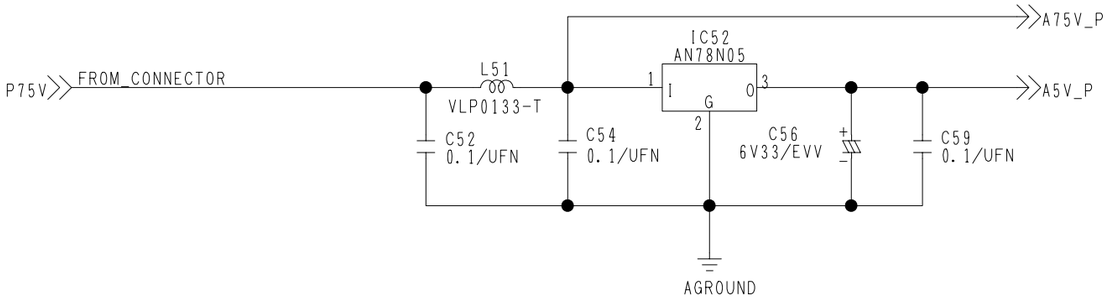


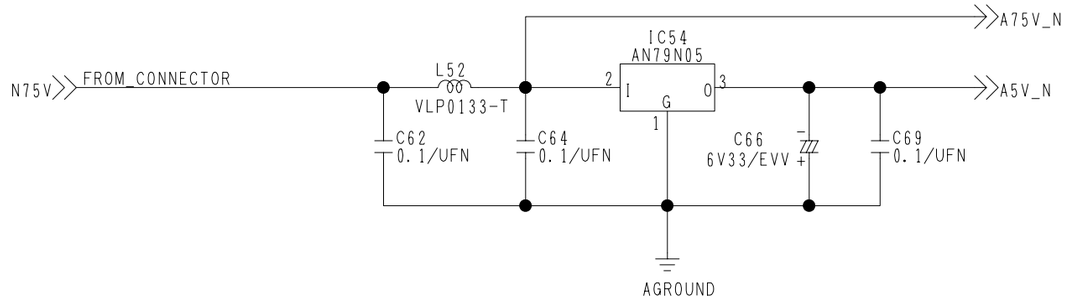


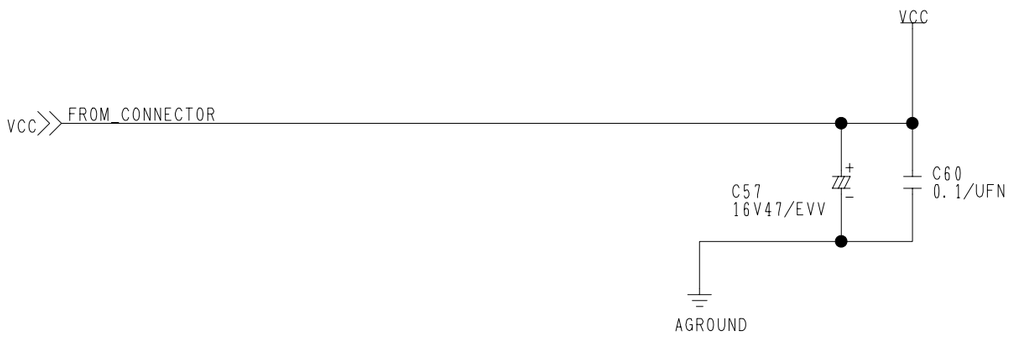
COMPONENT NAME	V IN(PAL) 450 only	01/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(1/20)		SCM103













COMPONENT NAME	V IN(PAL) 450 only	02/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(2/20)		SCM104

DIP[0-9] FROM CONNECTOR
DIN[0-9] FROM CONNECTOR
DIP[0-9]
DIN[0-9]

C101 0.1/UFN
C104 0.1/UFN
C102 0.1/UFN
C105 0.1/UFN
C103 0.1/UFN
C106 0.1/UFN
VCC
GROUND
VEE
VBB
VEE
IC101 MC10H125MR
IC102 MC10H125MR
IC103 MC10H125MR

R101 100/J6
R103 100/J6
R104 100/J6
R105 100/J6
R106 100/J6
R107 100/J6
R108 100/J6
R109 100/J6
R110 100/J6
R111 100/J6
R112 100/J6

DIP[0] DIP[1] DIP[2] DIP[3] DIP[4] DIP[5] DIP[6] DIP[7] DIP[8] DIP[9]
DIN[0] DIN[1] DIN[2] DIN[3] DIN[4] DIN[5] DIN[6] DIN[7] DIN[8] DIN[9]

IC101 MC10H125MR
IC102 MC10H125MR
IC103 MC10H125MR
DA DA DB DB DC DC DD DD
QA QB QC QD
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9]

R113 0/J6
R114 OPEN/J6

SVD[0-9]
TO SIF DEC SVD[0-9]

C110 0.1/UFN
IC110 74F244SJ-R1
R115 100/J6
1G 2G
2A4 2A3 2A2 2A1 1A4 1A3 1A2 1A1
2Y4 2Y3 2Y2 2Y1 1Y4 1Y3 1Y2 1Y1

YC_IN_27M_P FROM_CONNECTOR
YC_IN_27M_N FROM_CONNECTOR
TO SIF DEC SIN_27M

C107 0.1/UFN
C108 0.1/UFN
IC107 MC10H125MR

R102 100/J6
TBC_RCK_P TO_CONNECTOR
TBC_RCK_N TO_CONNECTOR
TO SYS IF TRCK

COMPONENT NAME	V IN(PAL) 450 only	03/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(3/20)		SCM105

AV_IORD_L FROM_CONNECTOR
AV_IOWR_L FROM_CONNECTOR
AV_RST_L FROM_CONNECTOR
AV_CS_VIDEO_L FROM_CONNECTOR
AVA[0-10] FROM_CONNECTOR
AVA[0] AVA[1] AVA[2] AVA[3] AVA[4] AVA[5] AVA[6] AVA[7] AVA[8] AVA[9] AVA[10]
AVD[0] AVD[1] AVD[2] AVD[3] AVD[4] AVD[5] AVD[6] AVD[7]
AVD[0-7] FROM_CONNECTOR
VBLK_CS FROM_CONNECTOR
VBLK_CLK FROM_CONNECTOR
VBLK_SDI FROM_CONNECTOR
TRCK FROM_INBUFF
TBC_RVRST FROM_CONNECTOR
TBC_RHRST FROM_CONNECTOR
FROM_4fsc_PLL NSTD_H
FROM_4fsc_PLL INSCH_H
FROM_4Fsc_PLL BW_L
FROM_SYNC_SEP VIDEO_IN_L
FROM_CONNECTOR YC_WIDE
TO_SIF_DEC KILL_H1
TO_SIF_DEC/CDEM/GAIN_CNTRL/4FSCPLL/DECODER/SYNC_SEP YC_L
TO_SIF_DEC/2nd_AD COMPONENT_L
TO_135_PLL/SIF_DEC/TBC/DIG_DEC SERIAL_L
TO_4fsc_PLL/SIF_DEC FSC_FIX_L
TO_SYNC_SEP FRM_DET
INL[0-4] FROM_TBC INL[0-4]
TO_SLICER S_CS
TO_OUTBUFF/TBC TBC_RCK
TO_OUTBUFF/TBC TBC_RV
TO_OUTBUFF/TBC TBC_RH
TO_GAIN_CNTRL GAN[0-7]
B4B[0-7]

IC153 EPM7032QC-3 VSI2496
IC151 SN74S1051NS
IC152 SN74S1051NS
IC156 74ALS245ASJR
IC164 UPD71055GB
IC165 UPD71055GB
QR151 MRN1403TE85L
R160 10K/J6
R159 10K/J6
C160 0.01/UBN
C157 0.1/UFN
C155 0.1/UFN
C153 0.1/UFN
C154 0.1/UFN
C158 0.1/UFN
C159 0.1/UFN
C151 0.1/UFN
C152 0.1/UFN
C156 0.1/UFN
CP1 CP2 CP3 CP4 CP5 CP6 CP7 CP8 CP9 CP10 CP11 CP12
VCC GROUND

COMPONENT NAME	V IN(PAL) 450 only	04/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(4/20)		SCM106

SERIAL_L FROM_SYS_IF
KILL_HI FROM_SYS_IF
VBLK_BW1 FROM_CONNECTOR
VBLK_BW2 FROM_CONNECTOR
SVD[0-9] FROM_INBUFF
SIN_27M FROM_INBUFF
SIN_FRM FROM_TBC
MIDW FROM_TBC
YC_L FROM_SYS_IF
COMPONENT_L FROM_SYS_IF
RSTH_SIF FROM_135M_PLL
CDL[0-2] TO_TBC
FROM_SYNC_SEP INP_FRM

VCC
R118 10K/J6
R119 10K/J6
SVD[0-9]
SDAT[0-7]
C203 0.1/UFN
C201 0.1/UFN
C205 0.1/UFN
C207 0.1/UFN
GROUND

IC201
EPM7032QC-3
VSI2402A

C204 0.1/UFN
C202 0.1/UFN
C206 0.1/UFN
C208 0.1/UFN

IC202
EPM7032QC-3
VSi2382

IC203
T74HCT541AF1
TO_DIG_DEC SINV
TO_DIG_DEC SINH
TO_TBC TBC_WH
TO_TBC TBC_WV
TO_SYNC_SEP DET_H
TO_TBC TBC_WCK
TO_DIG_DEC YCLK

IC204
T74HCT374AF1
TIY[0-7]
TO_TBC TIY[0-7]

IC205
74F574SJ-R1

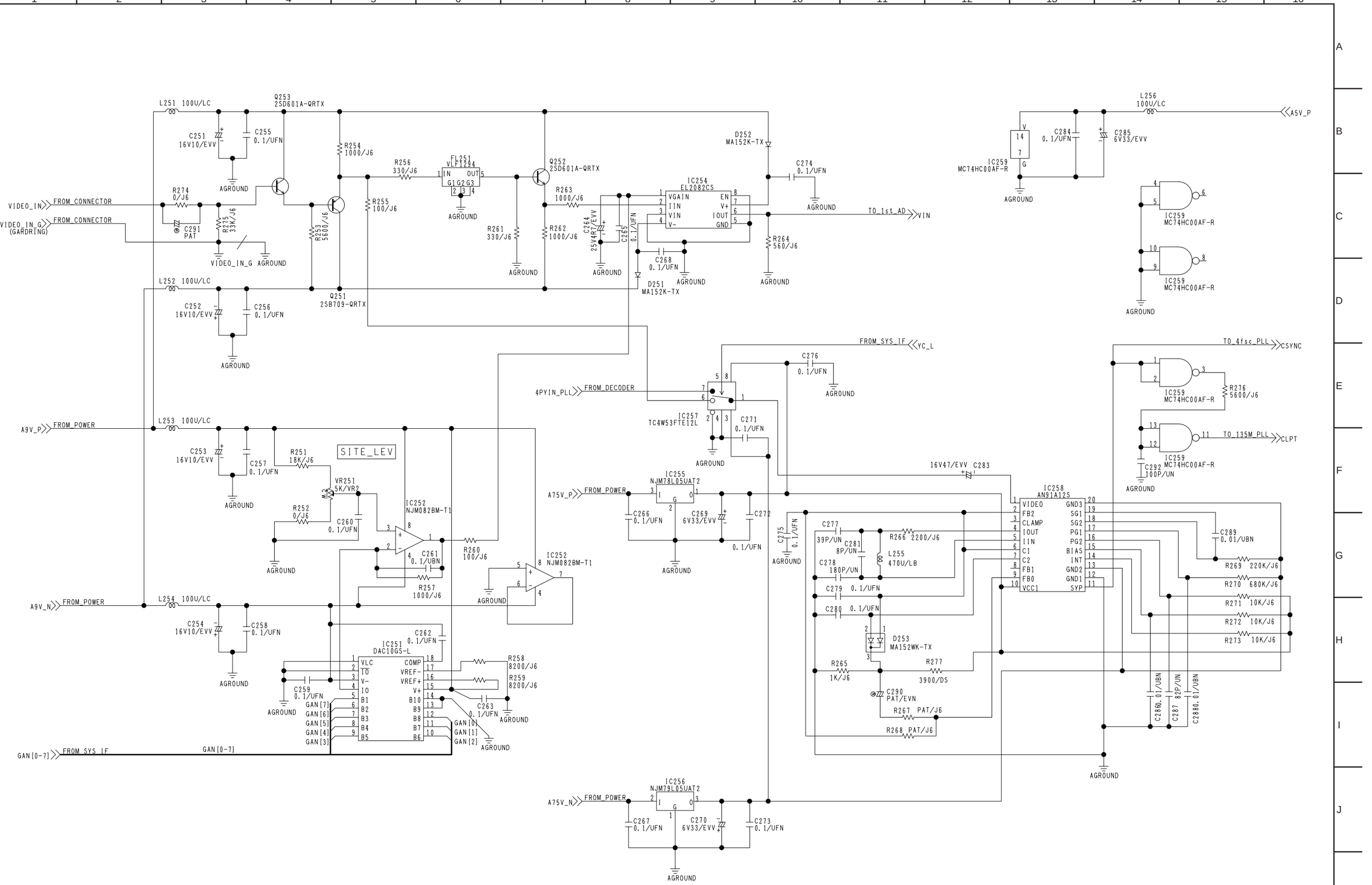
IC210
T74HCT374AF1
TIC[0-7]
TO_TBC TIC[0-7]

R217 100/J6
GROUND

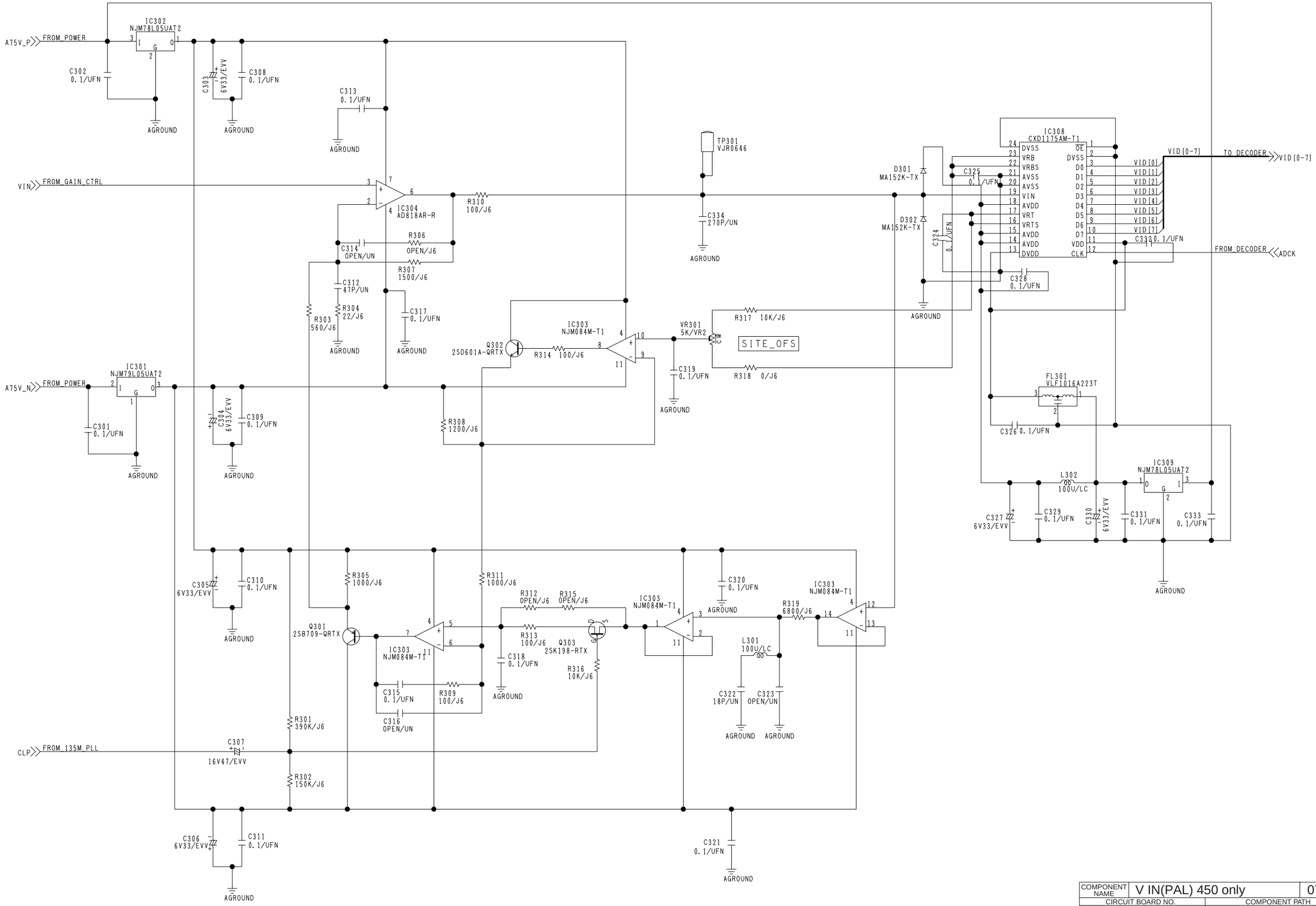
TO_OUTBUFF FRM_SEL
TO_TBC, DECODER KILL_H
TO_DIG_DEC SDAT[0-7]
FROM_SYS_IF FSC_FIX_L

VCC
IC203
C212 0.1/UFN
IC204
C213 0.1/UFN
IC205
C214 0.1/UFN
IC210
C215 0.1/UFN
GROUND

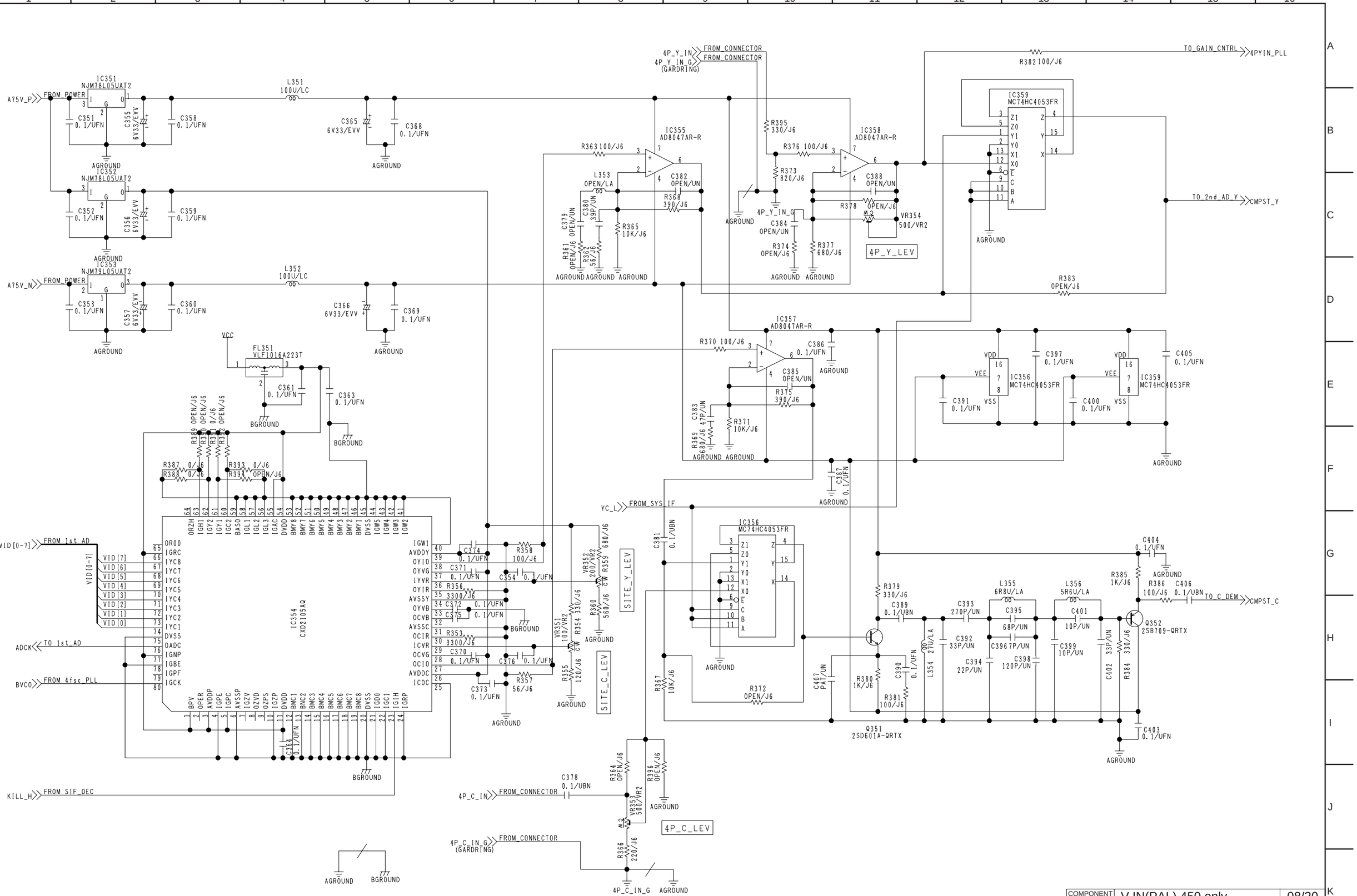
COMPONENT NAME	V IN(PAL) 450 only	05/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(5/20)		SCM107



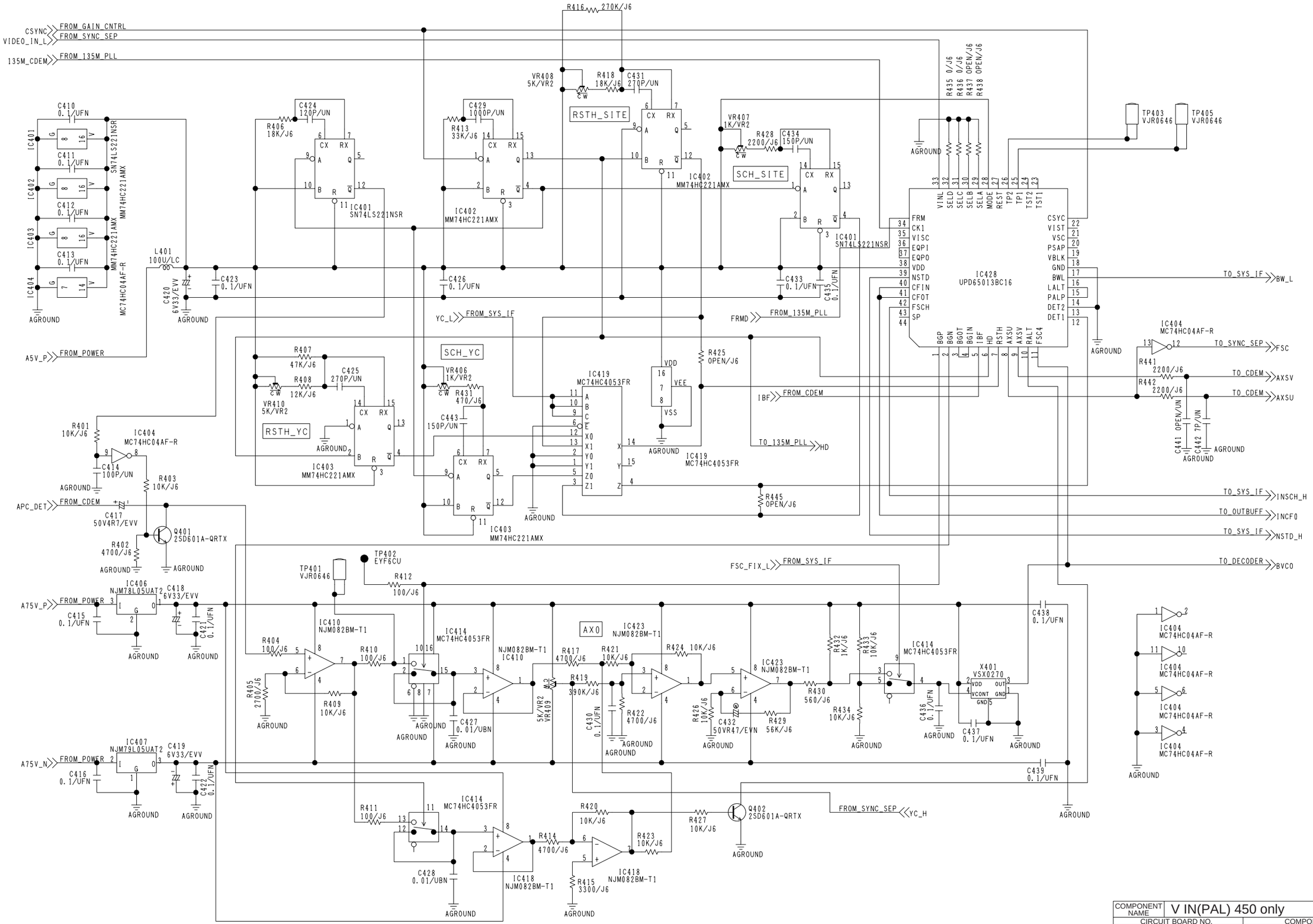
COMPONENT NAME	V IN(PAL) 450 only 06/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83398A	
KR3T81(6/20)	SCM108



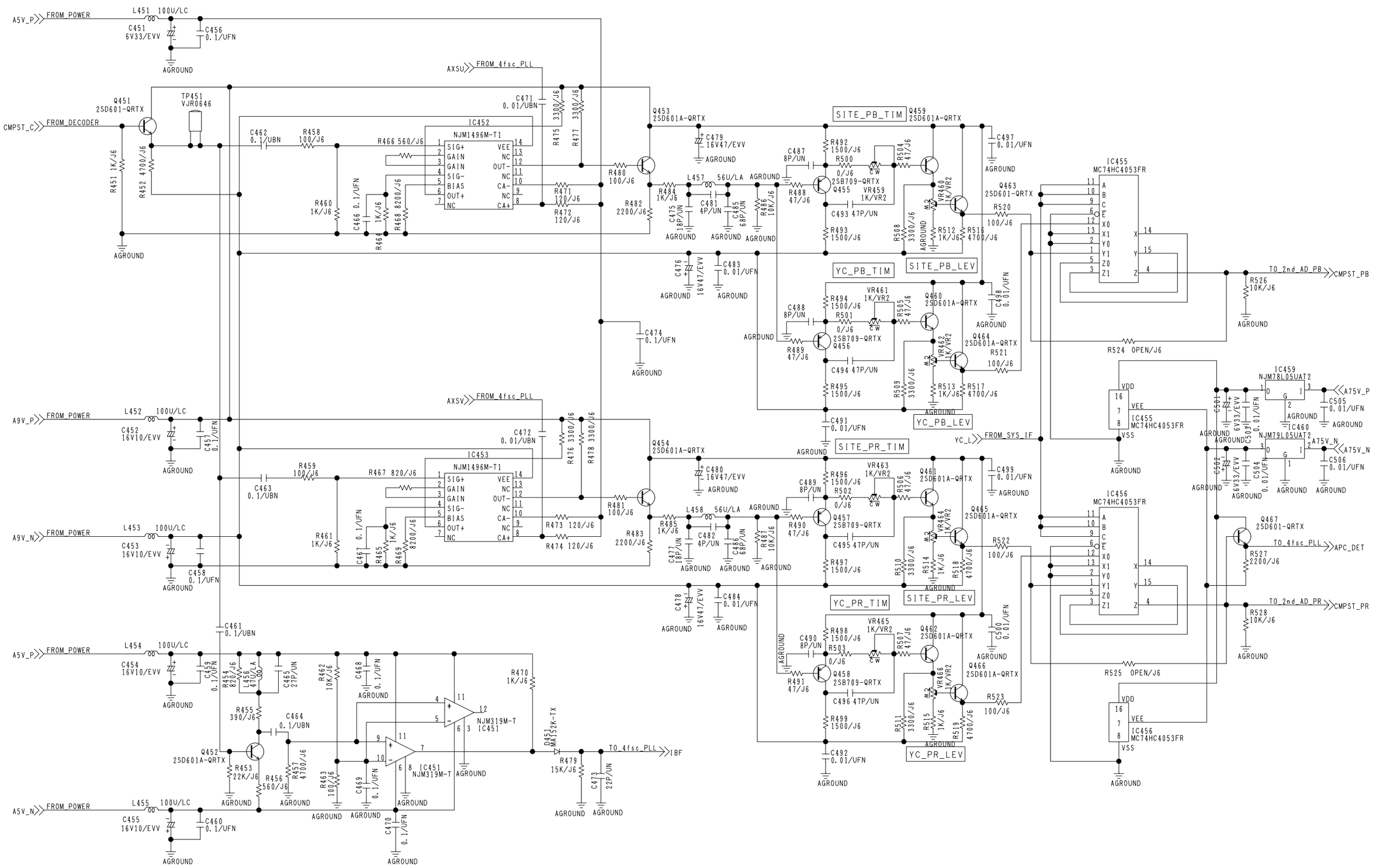
COMPONENT NAME	V IN(PAL) 450 only	07/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(7/20)		SCM109



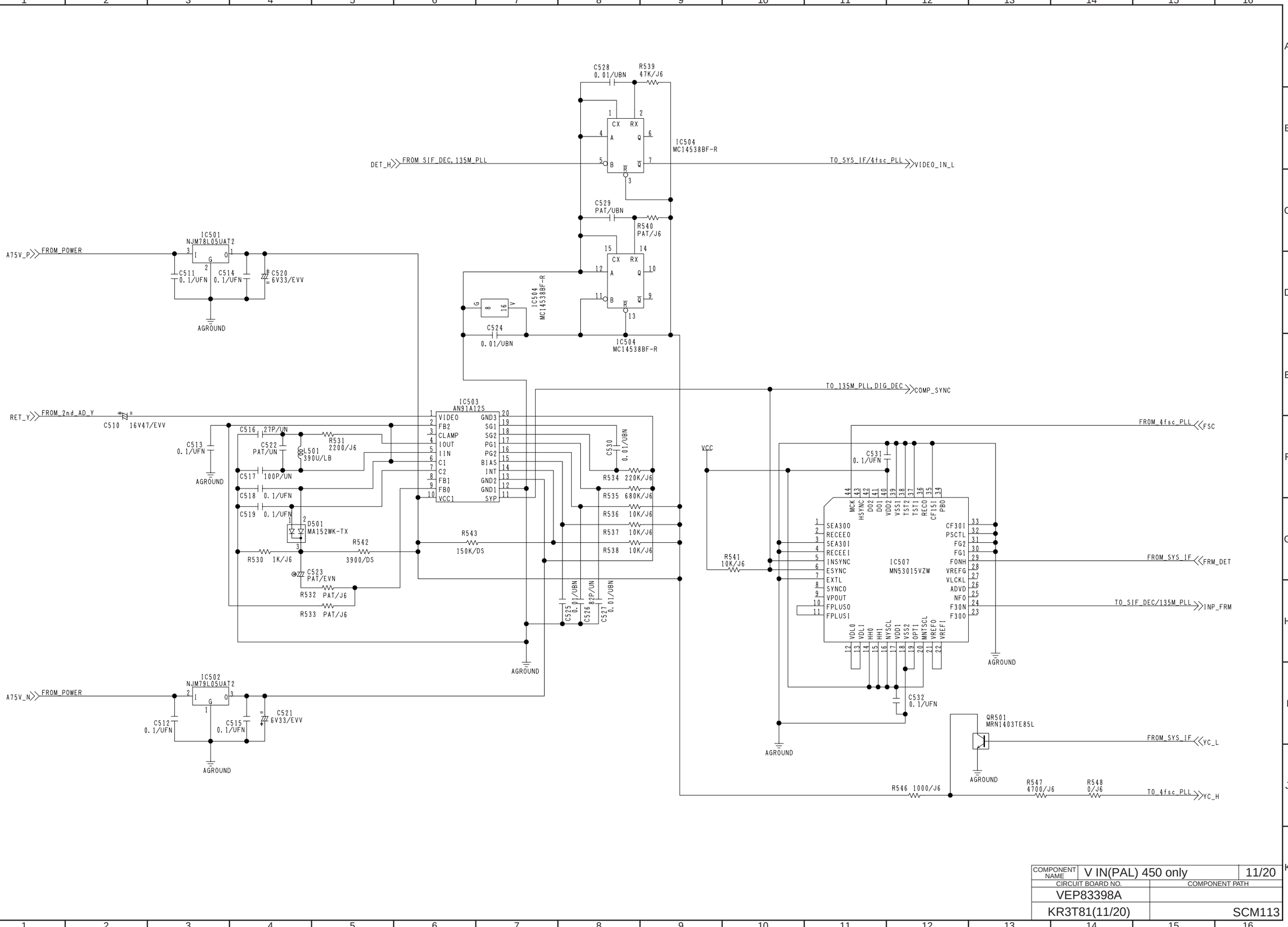
COMPONENT NAME	V IN(PAL) 450 only	08/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(8/20)		SCM110



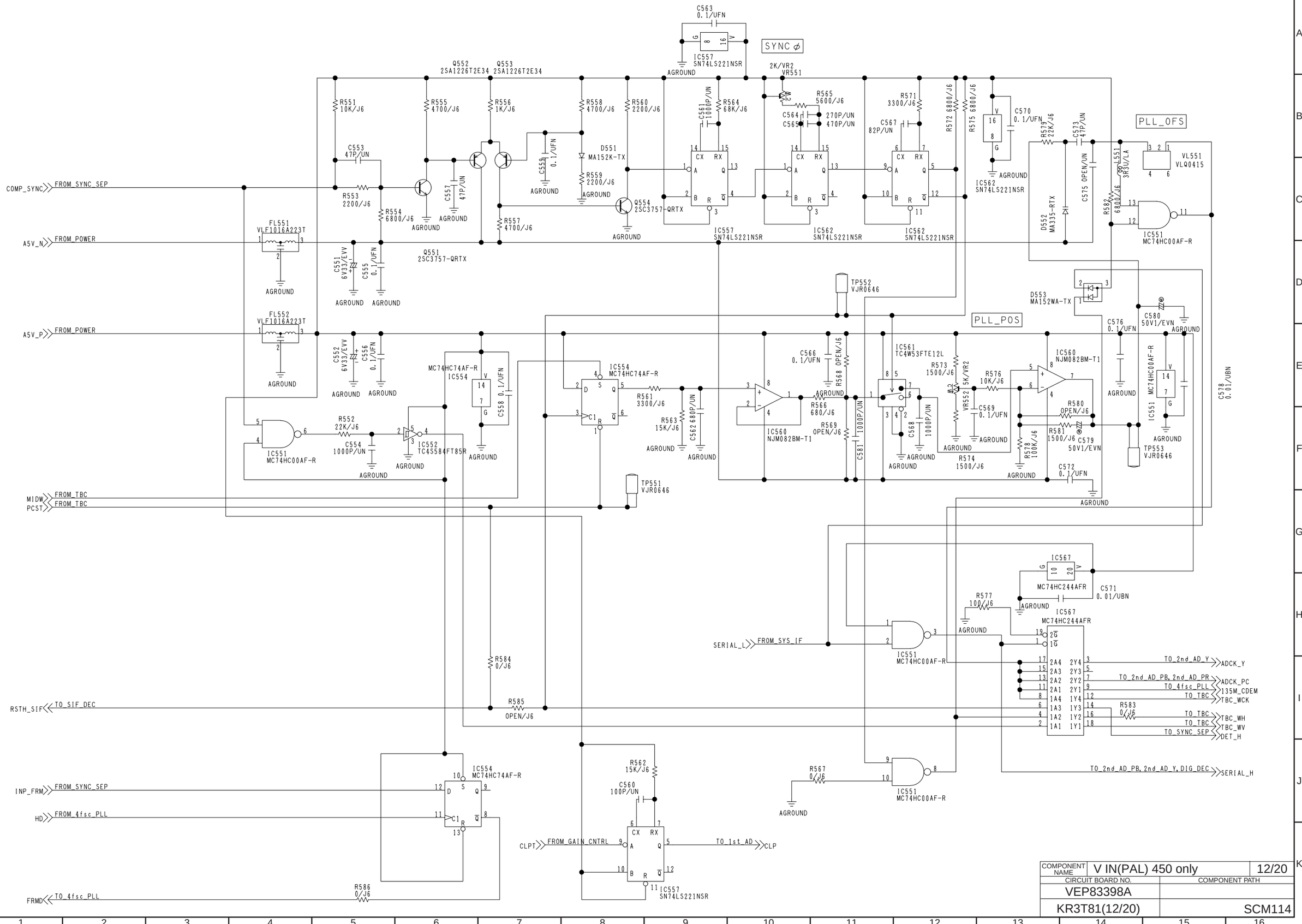
COMPONENT NAME	V IN(PAL) 450 only	09/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(9/20)		SCM111

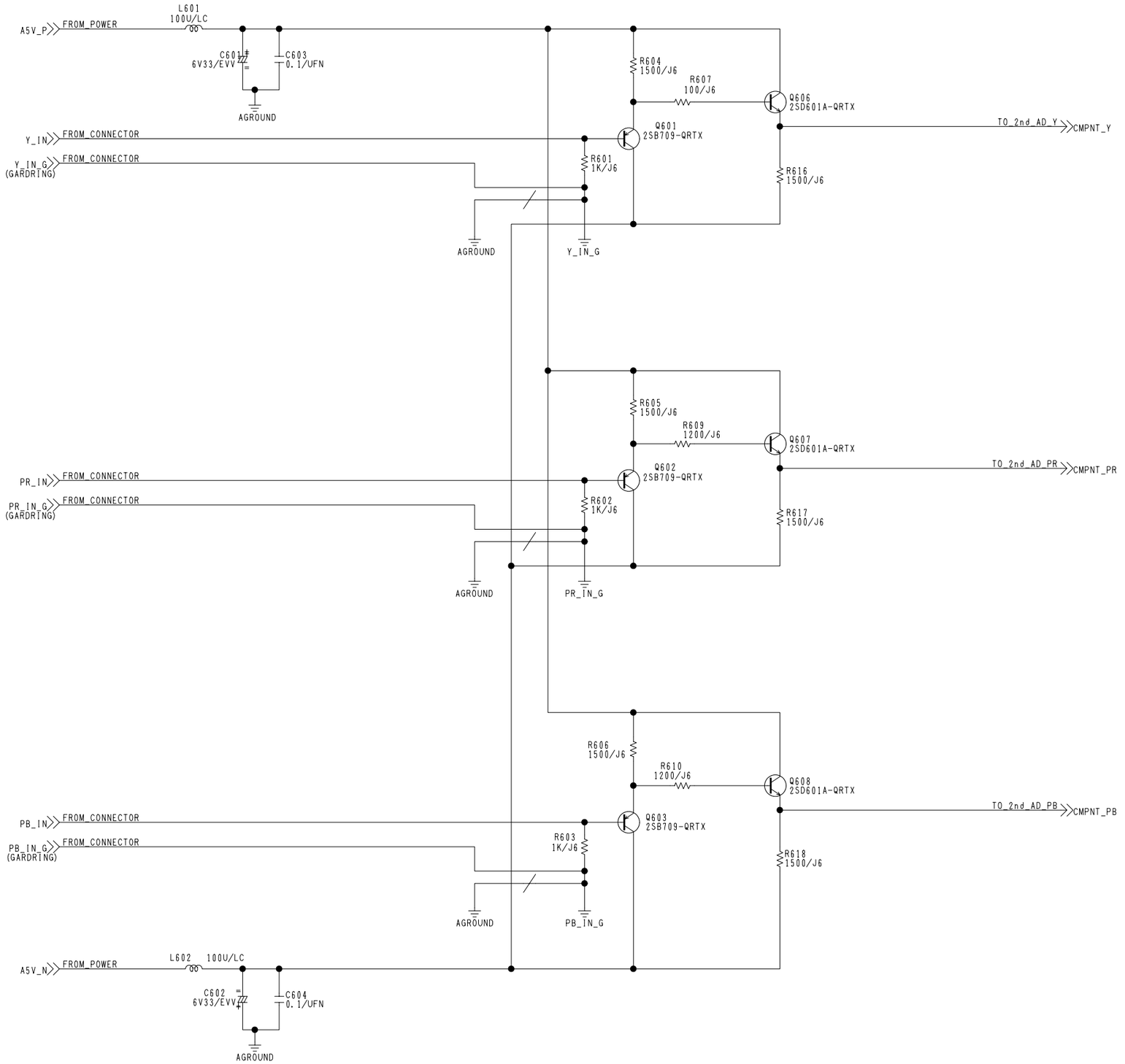


COMPONENT NAME	V IN(PAL) 450 only 10/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83398A	
KR3T81(10/20)	SCM112

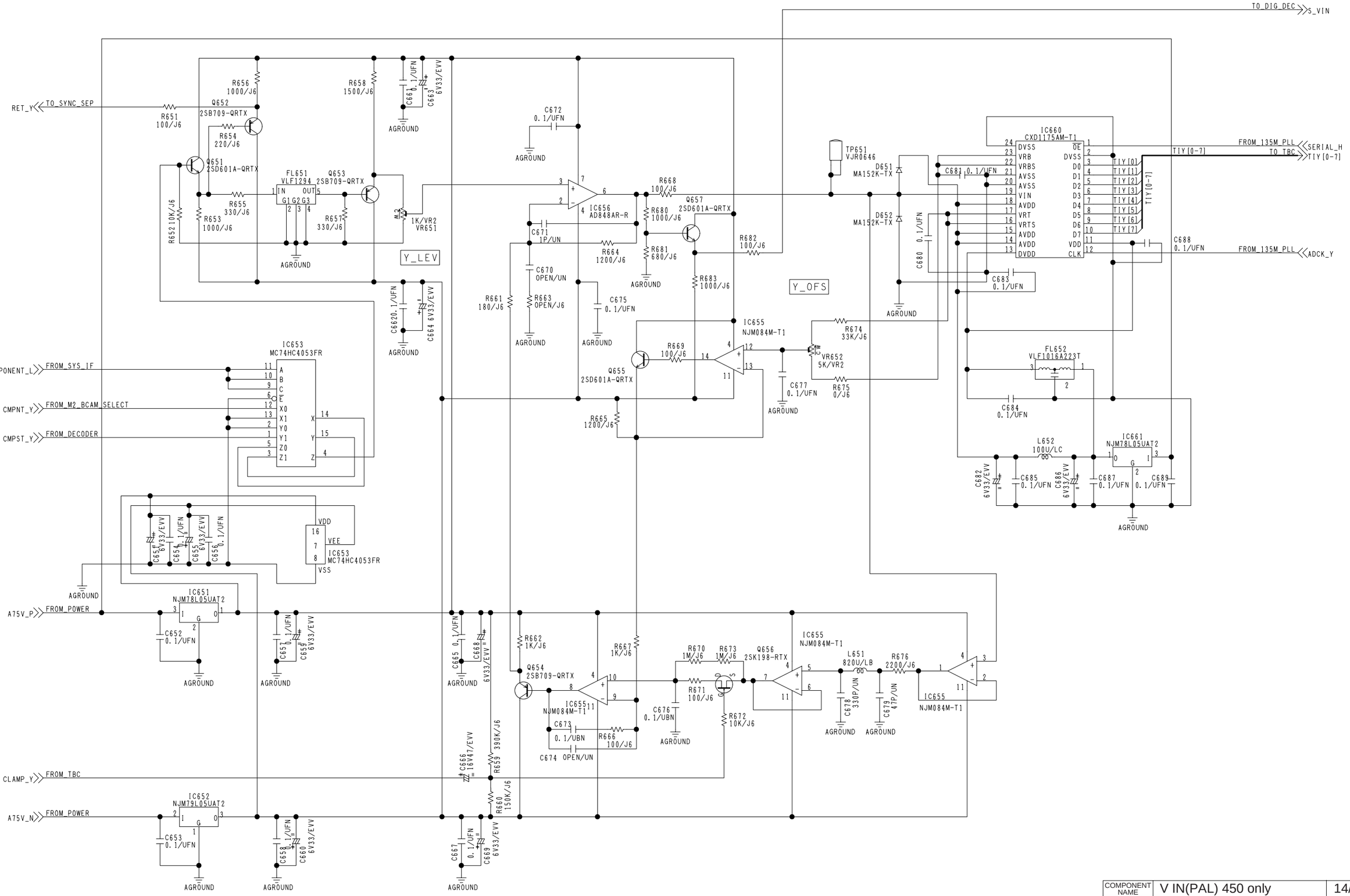


COMPONENT NAME	V IN(PAL) 450 only	11/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(11/20)		SCM113

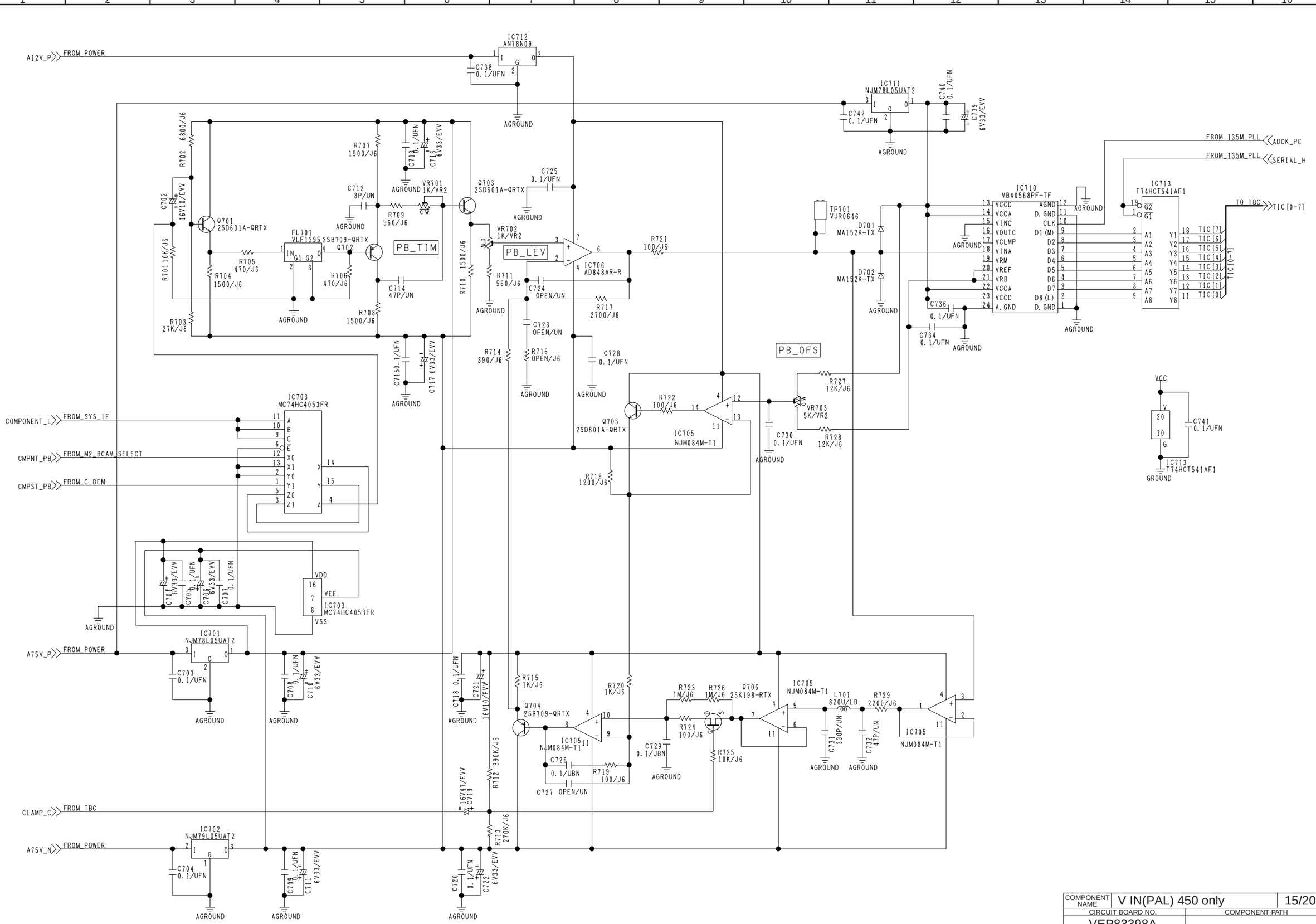

SYNC ϕ
PLL_OFS
PLL_POS
IC557 SN74LS221NSR
IC562 SN74LS221NSR
IC551 MC74HC00AF-R
IC554 MC74HC74AF-R
IC552 TC45584FT85R
IC560 NJM082BM-T1
IC561 TC4W53FTE12L
IC567 MC74HC244AFR
VL551 VLQ0415
Q551 2SC3757-QRTX
Q552 2SA1226T2E34
Q553 2SA1226T2E34
Q554 2SC3757-QRTX
D551 MA152K-TX
D552 MA335-RTX
D553 MA152WA-TX
FL551 VLF1016A223T
FL552 VLF1016A223T
TP551 VJR0646
TP552 VJR0646
TP553 VJR0646
COMP_SYNC FROM_SYNC_SEP
A5V_N FROM_POWER
A5V_P FROM_POWER
MIDW FROM_TBC
PCST FROM_TBC
INP_FRM FROM_SYNC_SEP
HD FROM_4fsc_PLL
FRMD TO_4fsc_PLL
RSTH_SIF TO_SIF_DEC
CLPT FROM_GAIN_CNTRL
SERIAL_L FROM_SYS_IF
TO_1st_AD CLP
TO_2nd_AD_Y ADCK_Y
TO_2nd_AD_PB,2nd_AD_PR ADCK_PC
TO_4fsc_PLL 135M_CDEM
TO_TBC TBC_WCK
TO_TBC TBC_WH
TO_TBC TBC_WV
TO_SYNC_SEP DET_H
TO_2nd_AD_PB,2nd_AD_Y,DIG_DEC SERIAL_H
AGROUND
2K/VR2 VR551
5K/VR2 VR552
C563 0.1/UFN
C570 0.1/UFN
C571 0.01/UBN
C572 0.1/UFN
C573 47P/UN
C575 OPEN/UN
C576 0.1/UFN
C578 0.01/UBN
C580 50V1/EVN
C579 50V1/EVN
R551 10K/J6
R552 22K/J6
R553 2200/J6
R554 6800/J6
R555 4700/J6
R556 1K/J6
R557 4700/J6
R558 4700/J6
R559 2200/J6
R560 2200/J6
R561 3300/J6
R562 15K/J6
R563 15K/J6
R564 68K/J6
R565 5600/J6
R566 680/J6
R567 0/J6
R568 OPEN/J6
R569 OPEN/J6
R571 3300/J6
R572 6800/J6
R573 1500/J6
R574 1500/J6
R575 6800/J6
R576 10K/J6
R577 100/J6
R578 100K/J6
R579 22K/J6
R580 OPEN/J6
R581 1500/J6
R582 6800/J6
R583 0/J6
R584 0/J6
R585 OPEN/J6
R586 0/J6
C547 47P/UN
C552 6V33/EVV
C553 47P/UN
C554 1000P/UN
C555 0.1/UFN
C556 0.1/UFN
C557 47P/UN
C558 0.1/UFN
C559 0.1/UFN
C560 100P/UN
C561 1000P/UN
C562 680P/UN
C564 270P/UN
C565 470P/UN
C566 0.1/UFN
C567 82P/UN
C568 1000P/UN
C569 0.1/UFN
C581 1000P/UN
MC74HC74AF-R
MC74HC00AF-R
MC74HC244AFR
SN74LS221NSR
COMPONENT NAME
V IN(PAL) 450 only
12/20
CIRCUIT BOARD NO.
VEP83398A
KR3T81(12/20)
COMPONENT PATH
SCM114



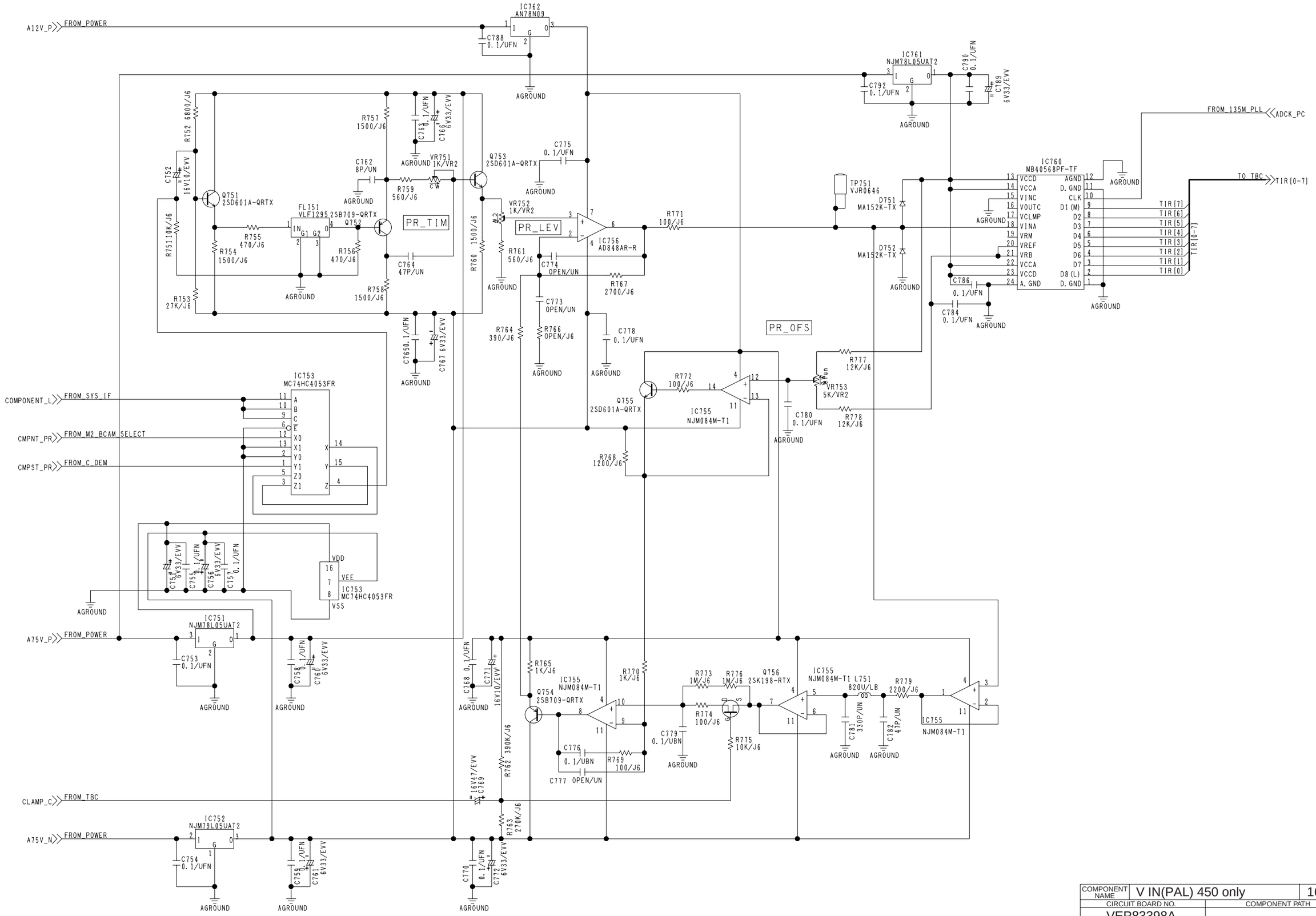
COMPONENT NAME	V IN(PAL) 450 only	13/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(13/20)	SCM115	



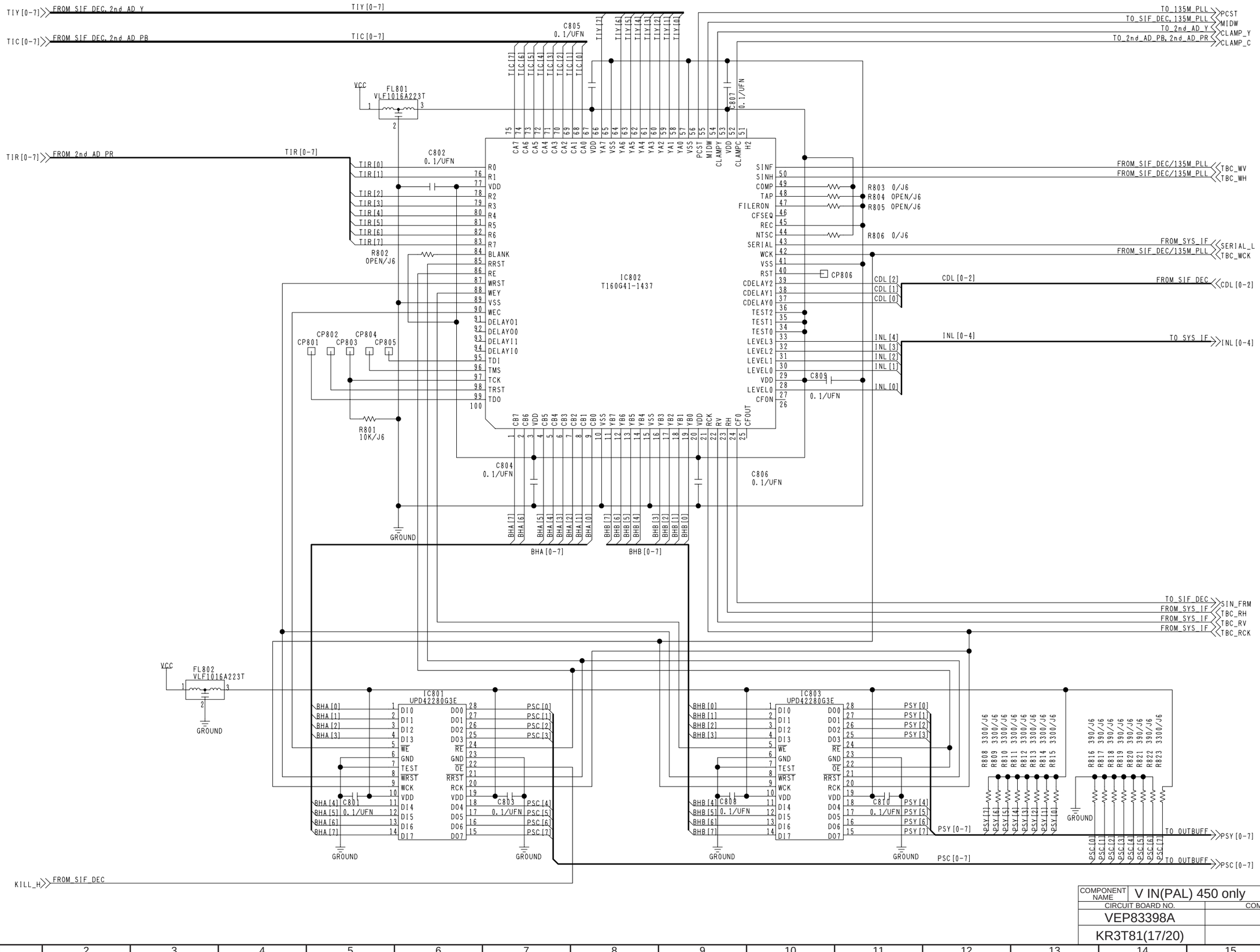
COMPONENT NAME	V IN(PAL) 450 only
	14/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83398A	
KR3T81(14/20)	SCM116



COMPONENT NAME	V IN(PAL) 450 only	15/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(15/20)		SCM117

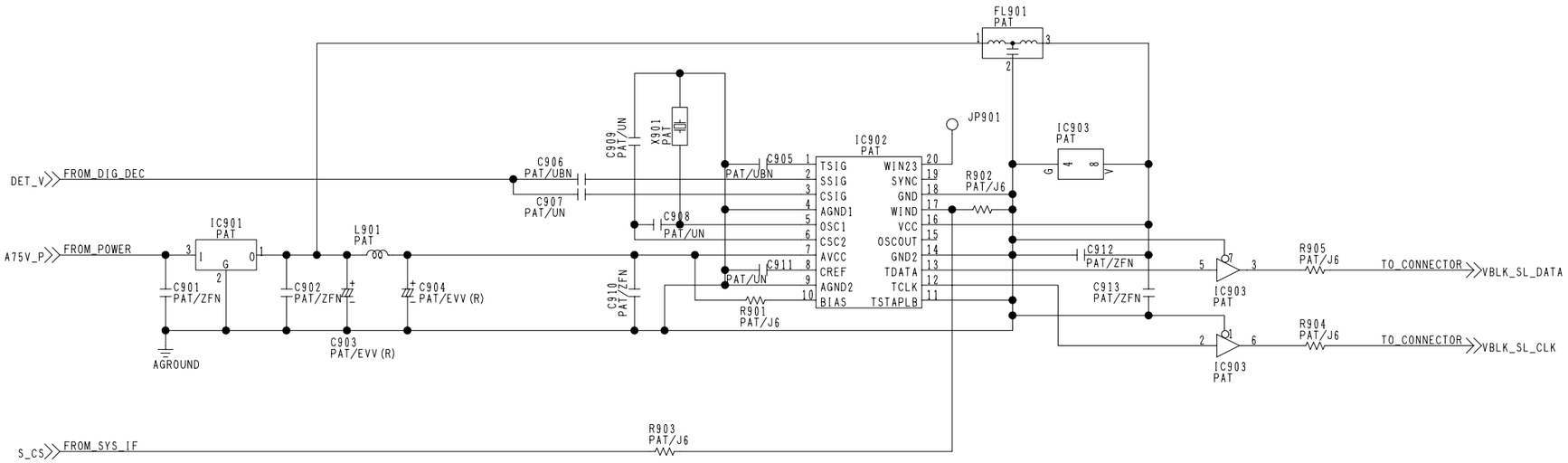


COMPONENT NAME	V IN(PAL) 450 only	16/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(16/20)	SCM118	

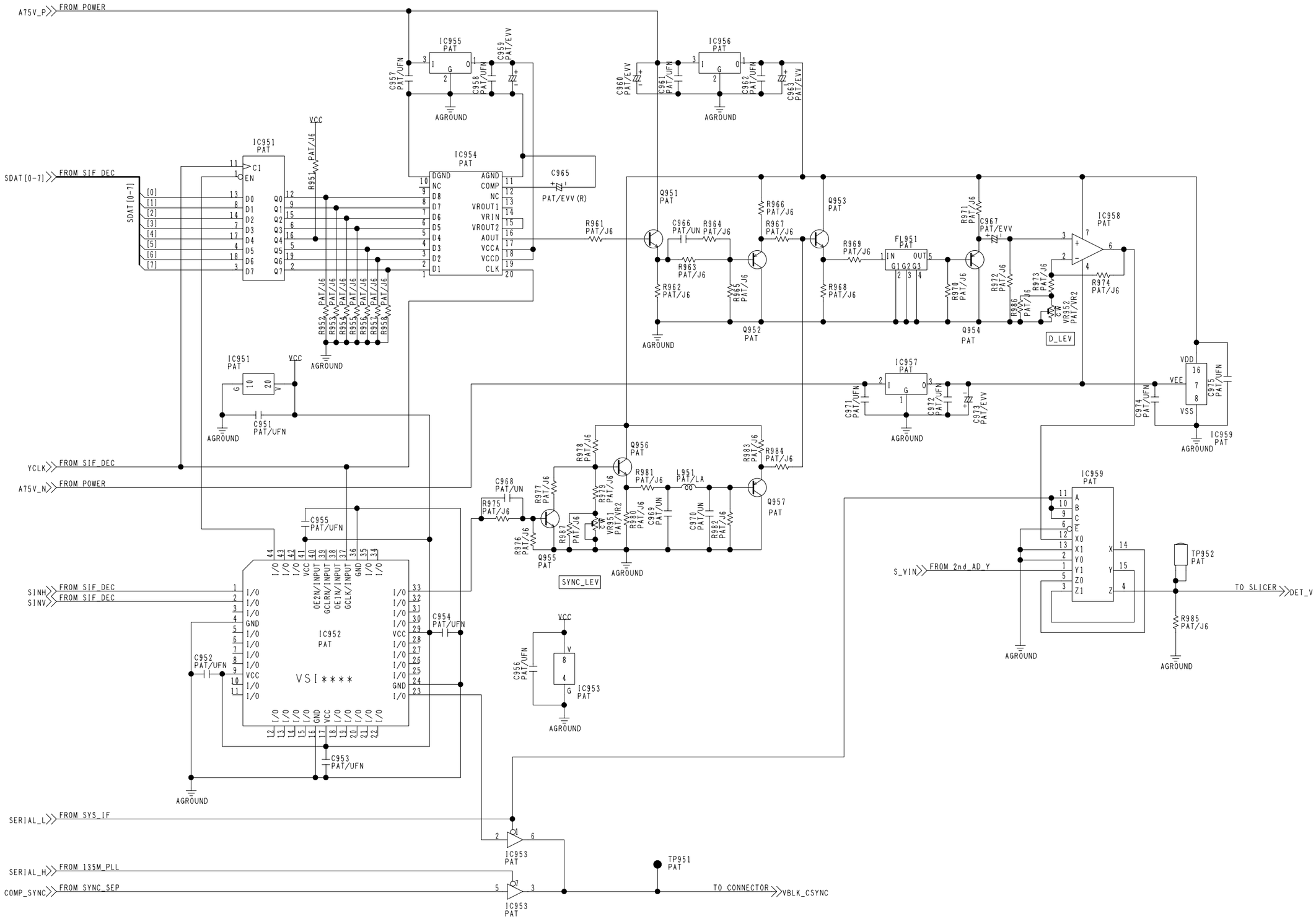


COMPONENT NAME	V IN(PAL) 450 only	17/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(17/20)		SCM119

COMPONENT NAME	V IN(PAL) 450 only	18/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(18/20)		SCM120



COMPONENT NAME	V IN(PAL) 450 only	19/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(19/20)		SCM121



COMPONENT NAME	V IN(PAL) 450 only	20/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(20/20)		SCM122